CW#123: Identifying Base and Height

Geometry

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ TP:\_\_\_\_\_

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| Objective | You will be able to describe the base and height of a shape. | |
|  | You will be able to describe how to identify the base and height of a shape | |
| 1. What is a base? | | 1. What is height? |
| 1. How do you identify the base of a triangle? | | 1. How do you identify the height of a triangle? |
| 1. *Notes*:   The height of a triangle corresponds to its \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. If the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ changes so does the height.    The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of a triangle is the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ onto the base from it’s \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ corner.    The height of a triangle \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ be outside the triangle. | | |

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| Objective | You will be able to correct identify the base and height of a shape. | |
| Below is a conversation between Drake and Meek Mill. Resources/iMessage_1.png../../../../../Desktop/Screen%20Shot%202016-05-08%20at%2012.12.30%20PM | | 1. Do you agree or disagree with Drake? Explain. 2. Do you agree or disagree with Meek Mill? Explain. |

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| ../../../../../Desktop/Screen%20Shot%202016-05-08%20at%2012.52.31%20PM | 1. Do you agree or disagree with Nikki? Explain. |
| 1. There are three possible correct base-height pairs for this triangle. Sketch all three.   ../../../../../Desktop/Screen%20Shot%202016-05-08%20at%2012.55.31%20PM ../../../../../Desktop/Screen%20Shot%202016-05-08%20at%2012.55.31%20PM ../../../../../Desktop/Screen%20Shot%202016-05-08%20at%2012.55.31%20PM | |

Bronze  
Directions: Identify the base(s) and height of each figure below.

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| --- | --- | --- | --- |
| 1. ../../../../../Desktop/Base_Height/Screen%20Shot%202016-05-08%20at%201.04.20%20PM | Base = | 1. ../../../../../Desktop/Base_Height/Screen%20Shot%202016-05-08%20at%201.04.44%20PM | Base = |
| Height = | Height = |
| 1. ../../../../../Desktop/Base_Height/Screen%20Shot%202016-05-08%20at%201.05.51%20PM | Base = | 1. ../../../../../Desktop/Base_Height/Screen%20Shot%202016-05-08%20at%201.06.26%20PM | Base 1 =   Base 2 = |
| Height = | Height = |
| 1. ../../../../../Desktop/Base_Height/Screen%20Shot%202016-05-08%20at%201.06.19%20PM | Base = | 1. ../../../../../Desktop/Base_Height/Screen%20Shot%202016-05-08%20at%201.05.40%20PM | Base = |
| Height = | Height = |

Silver

|  |  |
| --- | --- |
| 16. ../../../../../Desktop/Screen%20Shot%202016-05-08%20at%201.16.35%20PM | a) Find the slope of line segment c1.    b) Find the slope of line segment b1.  c) Based on what you found above, explain why triangle ABC is a right triangle. |
| 17. Graph the following in line on the grid below:  Graph and write the equations of two more lines that will create a right triangle in the coordinate plane.  ../../../../Math%20Materials%20-%20KMR/Images/Coordinate_Grid_XYAxis.PNG | 18. Graph the following lines in your notebook (*note: You will want your x values to be between -20 and positive 20*)  A student says that the two lines can used as the base and height of a shape.  a) What must be true about the two lines in order for them to be a base and height?  b) Find the equation of a line that will create a right triangle with the two lines above.    c) Find the equations of two lines that will create a rectangle with the two lines above. |

HW#123: Identifying Base and Height

Geometry  
Due: Thursday, May 12th

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| Directions: There are three possible correct base-height pairs for this triangle. Sketch all three. | | | | | |
| 1. | | 2. | | 3. | |
| Directions: Identify the base and height of each shape below. | | | | | |
| 4. ../../../../../Desktop/Screen%20Shot%202016-05-08%20at%201.48.04%20PM | | 5. ../../../../../Desktop/Screen%20Shot%202016-05-08%20at%201.49.24%20PM | | 6. ../../../../../Desktop/Screen%20Shot%202016-05-08%20at%201.49.43%20PM | |
| Base = | Height = | Base 1=   Base 2 = | Height = | Base = | Height = |
| Direction: State whether or not you agree with the identified base and height. If you agree, explain why it is correct. If you disagree, explain why it is incorrect. | | | | | |
| 7. | | 8. | | 9. | |
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